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SOUNDMAN

DR2

Professional Digital Recorder

User Manual

For Customers in U.S.A. or Canada
If you have any questions about this product, you can mail to soundman@soundman.de

Regulatory Information:

Declaration of Conformity

Model: DR2

This device complies with part 15 of FCC rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2) This device must accept any interference received, including interference that may cause undesired operation.

FCC Notice:
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio and television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
-Reorient or relocate the receiving antenna.
-Increase the separation between the equipment and receiver.
-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-Consult the dealer or an experienced radio/ TV technician for help.

For Customers in Europe

This product conforms to the following European Directives:
89/336/EEC (EMC Directive)
This product complies with EN55022/A1:2000 and EN 55024/A1:2001 for use in the following areas: residential, commercial and light industrial.

Page-3.pdf 23.05.2007 16:50:50

Contents

Preparation.....05
- Manual instruction.....05
- Liability exemption statement.....05

Important.....06

Safety Precaution.....07

Features of the product.....08

A list of accessories.....09

Product Drawing & Function Keys.....10

Description of LCD display.....11

Operation instructions of function buttons.....12-13

PC Connection.....14-17

Basic functions.....18
- Power on/off.....18
- Volume setting.....18
- Mode switch.....19
- Lock function.....19
- Play music.....19
- FM radio.....20
- Record function.....21-22
- Manual adjustment.....22
- Monitoring.....22
- Play recorded files.....23

Additional functions.....23
- EQ setting.....23
- Repeat mode.....23
- ID3 language selection.....24
- File management.....24

Firmware upgrade.....25

Page-4.pdf 23.05.2007 16:51:14

Contents

System setting.....26
- Selection menue.....26
- OS language.....26
- Idle.....26
- Sleep.....26
- Backlight time.....26
- Contrast.....27
- Scroll 27
- ASD.. 27
- Default 27
- About (this device).....27

Main menu tree diagram.....28

Customer support.....29

- Trouble shooting.....29

Specifications.....30

Preparation

Manual Instruction

Thank you for purchasing Soundman Digital Rekorder DR2. This manual systematically introduces the operation method, skills and relevant precautions. Please read it carefully so as to master the operation method quickly.

We try to provide products with appearance identical to the pictures displayed in this manual, but the real one may more or less differ from the pictures. Please see the real product for reference. The PC we mentioned in this manual, except otherwise specified, refers to desk computer or notebook computer with Windows operating system*. All products, devices, digital audio rekorders we mentioned in this manual, except otherwise specified, refer to digital audio rekorder.
* Tested with WindowsXP, MacOSX, Linux Debian Sarge.

Liability Exemption statement

1. All the information written in this manual was produced with our company's careful caution, but there still may be some mistakes. Soundman will not be responsible for this maybe mistakes.
2. Since we cannot control users' understanding of this manual, Soundman will not be responsible for any accident or other loss caused by misunderstanding of this manual. We will also not be responsible for any loss caused by using our product or the claim by the third party.
3. Soundman will be responsible only for the inherent problem of the device,but not for data loss, revision of the device or other indirect losses resulting from mal-operation of software, maintenance or other accidents. Soundman will not be responsible for restoration of the personal data lost.
4. Soundman reserves the right of modifying the software, hardware and user manual of this device without special notice.
5. To make copies, publish, transfer, store in traceable system or translate to any other languages without written authorization from Soundman is prohibited.

Important

1. Do not drop the rekorder or give a hard impact, it could cause malfunction.
2. Do not subject the rekorder to high temperature or direct sunlight.
3. Keep it far away from humid place.
4. Do not disassemble it.
5. Use dry cloth to clean the rekorder.
6. Do not contact chemicals such as benzene or diluents.
7. Take the battery out, if left unused for a long period.

Safety Precaution

Before using this device, please carefully read and understand every safety instruction listed in this chapter, and observe them strictly in future use to ensure that the device provides you with pleasure and entertainment for a long time.

1. Read carefully all the attached user's materials and fully understand the operation guide and warnings of this device.
2. Check if the contents in the package of the device are consistent to the packing list. If not, please contact the dealer immediately.
3. When it is left unused for a long period of time, the battery should be taken out from battery chamber. If liquid leakage of battery is detected and the device works abnormally, please do not dismantle the device for cleaning, which may lead to irremediable damages to the device. In this case, please do not hesitate to contact Soundman customer service center for technical support and help from Soundman professional servicemen. But Soundman shall take no liability for damages resulting from battery liquid leakage.
4. This device is a hi-tech electronic product, which should keep away from heat, cold and moisture when being used. Special care should be taken to observe the following points:
   a) The device should not be exposed to strong sunlight, and should keep away from heat sources.
   b) Avoid using the device outdoor at low temperature for a long period of time.
   c) The device should not be placed in the environment of extra-humidity; Care should be taken so that water and other liquids are not spilled onto the device. If it happens, the device should be switched off immediately.
   d) The device should not be used in dust-plagued or very dirty places.
   e) Do not clean the device with any type of detergent containing chemical elements or other solutions in order to avoid damages from corrosion or moisture. If necessary, please clean it with soft cloth or paper slightly.
5. Do not use the device in strong magnetic field, strong electric charge or electromagnetic interference environment in order to prevent data from being lost.
6. Do not drop the device on the ground or suffer from fierce impact from other objects, which may lead to unnecessary loss.
7. The device should be opened under no circumstances. The manufacturer takes no liability for damages resulting from unauthorized tampering.

Features of the product

This device is a new generation of multi-function digital recorder player, which can play music (MP3 and WAV), with built-in FM reception function, and also the capability of recording the signal of built-in Mic, ext. microphone, FM signal. It can also serve as a plug-and-play USB disk.

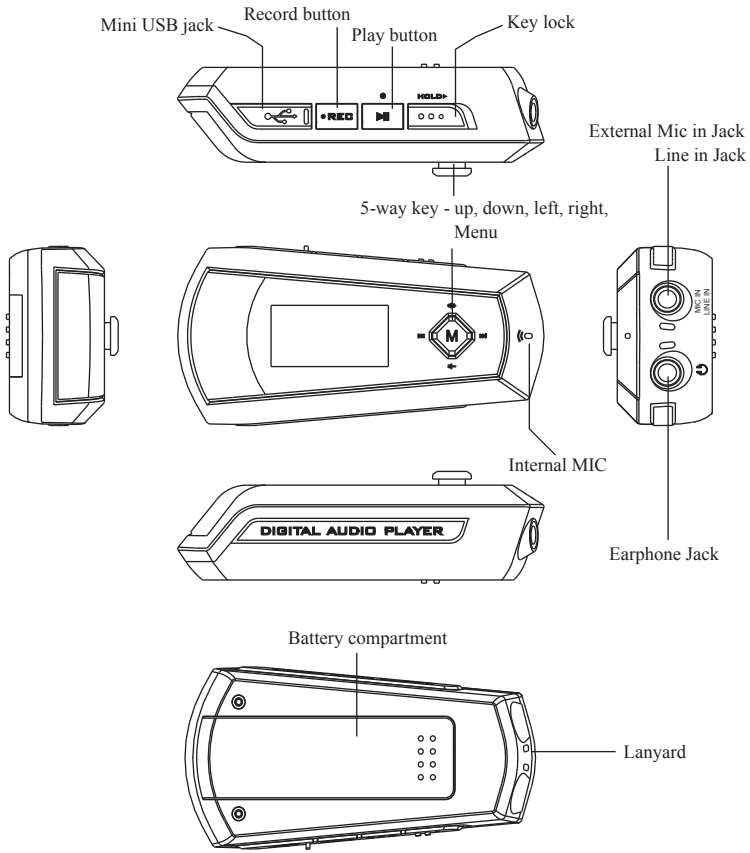
Here we list some major functions and features here for your reference:
- OLED2 Color Display
- Show Artist and Song Name
- Show Lyrics
- Multi ID3 Language support
- integrated FM Radio
- Combined Mic-IN/Line-IN Jack (powered/unpowered mixed)
- Built-In Microphone
- Frequency Range 20Hz - 20kHz
- Signal to Noise Ratio 85 dB
- Recording possible from: Radio, Mic-IN (powered), Mic-IN (unpowered), Line-IN und Built-IN-Microphone
- Mic-IN 3V (Plug-in-Power) manual level adjustment
- Line-IN (Plug-in-Power) manual level adjustment
- 0 / -10 / -20dB switchable
- Recording MP3 (selectable 96, 128, 196)
- Recording WAV (ADPCM)
- Playing Formats: MP3, WAV, WMA
- Play Mode: Normal, Repeat one, Repeat all, Shuffle, Random shuffle
- Plug-and-play USB(2) Mass-storage (Up/Download/Saving all PC Datatypes possible)
- Firmware update possible
- 2GB internal memory
- AAA/LR03 1,5V Battery (over 6h Recordtime with WAV format, standard battery format)
- Dimensions in mm: 72,5 x 35,5 x 18,5 (HxWxD)

Page-9.pdf 23.05.2007 16:52:11

A list of accessories

1. Main device
2. Earphone
3. MINI-USB cable
4. AAA battery
5. User manual

Product Drawing & Function Keys



Description of LCD display

Operation instructions of function buttons

Note:

Short press ----- press a button for less than one second
Long press ----- press a button for more than one second

Function buttons	Status	Button press mode	Functions
⏯	Power on	Long	Sleep
	Sleep	Short	Power on
	Stop/pause	Short	Play files
	Play	Short	Pause
⏭	Pause	Long	Scan fast forward
	Stop	Long	Scan forward continuously
	Stop/pause	Short	Move to the next file
	Play	Long	Scan fast forward
	Play	Short	Move to the next file
	Menu	Short	Enter sub menu
	FM (normal radio mode)	Long	Scan broadcasting frequency from low to high
	FM (normal radio mode)	Short	Scan forward with 0.05MHz as a unit
	FM (preset radio mode)	Short	Continuously selecting preset broadcasting stations
	Recording	Short	manuall adjustment +
⏮	Pause	Long	Fast search backwards
	Stop	Long	Continuously search file backwards
	Stop/pause	Short	Move to the last file
	Play	Long	Fast search backwards
	Play	Short	Move to the beginning of the current files

Operation instructions of function buttons

Function buttons	Status	Button press mode	Functions
⏮	Play(within 5 minutes after play start)	Short	Move to the last file
	Menu	Short	Enter the previous stage menu
	FM (normal radio mode)	Long	Scan broadcasting frequency from low to high
	FM (normal radio mode)	Short	Scan forward with 0.05MHz as a unit
	FM (preset radio mode)	Short	Continuously selecting preset broadcasting stations
	Recording	Short	manuall adjustment -
VOL +	Stop/pause/play/FM	Long	Volume up continuously
	Stop/pause/play/FM	Short	Volume up
	Menu	Short	Move to the previous menu item
VOL −	Stop/pause/play/FM	Long	Volume down continuously
	Stop/pause/play/FM	Short	Volume down
	Menu	Short	Move to the next menu item
M	Recording	Short	0dB/-10dB/-20dB adjustment
	Stop/pause/play	Long	Go to the mode select menu
	Stop/pause/play	Short	Get into setting menu
REC	Menu	Short	Confirm the selection
	Stop/pause/FM	Short	Start recording
	Record	Short	Stop recording
	Record/Music	Long	Internal Mic,Ext-Mic(with/ without Power),Line-In
HOLD	Sleep/stop/pause/play/record	On	Function buttons idle
	Sleep/stop/pause/play/record	Off	Function buttons resume

PC Connection

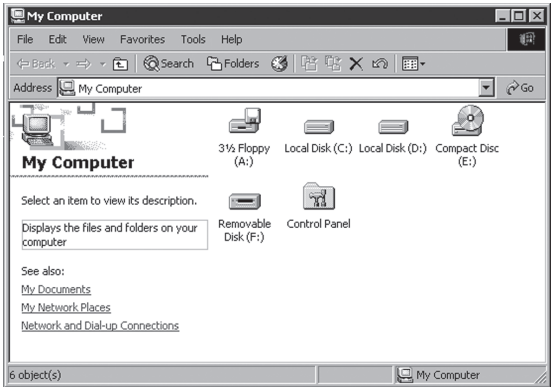
Note:

The PC we mentioned in this manual, except otherwise specified, refers to desk computer or notebook computer with Windows operating system; All products, recorders, digital audio recorders we mentioned in this manual, except otherwise specified, refer to digital audio recorders.

Connect the recorder to the PC with the provided USB cable

Mass storage PC Connection

Windows will show "Found New Hardware" when the recorder is first connected. The recorder will then recognized as a new recorder under My computer. Please note that, depends on the hardware configuration, it may take several minutes for Window to recognize the recorders for the first time.



The recorder will appear as a removable driver under My Computer .

Add-on Function:

1.The recorder can also be used as an external drive for storage of non-music files.

2.The recorder is compatiable with Music Match. You can directly rip your audio CDs to WAV or MP3 format using Music Match software and directly download to the recorder.

*Our recorder does not support WAV files downloaded or created by other music players. It only support WAV files recording direct from the recorder.

How to Format the Recorder

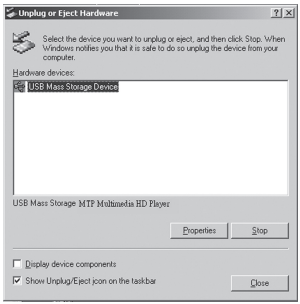
The purpose of re-formatting the recorder is to try to restore the player to normal operation. This is for when the recorder is not able to function properly or in cases where your player is unable to power on. Keep in mind, that the content of the recorder will be removed once being formatted.

1.Connect the recorder to the PC.
2.Right click the additional drive and click Format.
3.Click "Yes" to confirm.

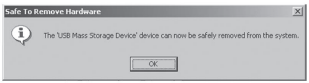
Disconnecting The Recorder From PC

Click the icon on the system tray.

When the interface "Unplug or Eject Hardware" appears, click "Stop".


Unplug or Eject Hardware
Select the device you want to unplug or eject, and then click Stop. When Windows notifies you that it is safe to do so unplug the device from your computer.
Hardware devices:
USB Mass Storage Device
USB Mass Storage MTP Multimedia HD Player
Properties
Stop
Display device components
Show Unplug/Eject icon on the taskbar
Close

When the "Safe To Remove Hardware" popup window appears, click the [ok] button and disconnect the USB cable from PC.



WARNING: Do not unplug the recorder when the screen is still displaying "Do Not Disconnect" as doing so may corrupt the files stored in the recorder and you will need to re-format the recorder.. If the recorder encounter abnormal interruption during recording such as battery removal you may also need to re-format it.

General and DRM File Transfer

CAUTION:
ONLY UNPLUG THE RECORDER WHEN ALL DOWNLOAD PROCEDURES ARE COMPLETED.

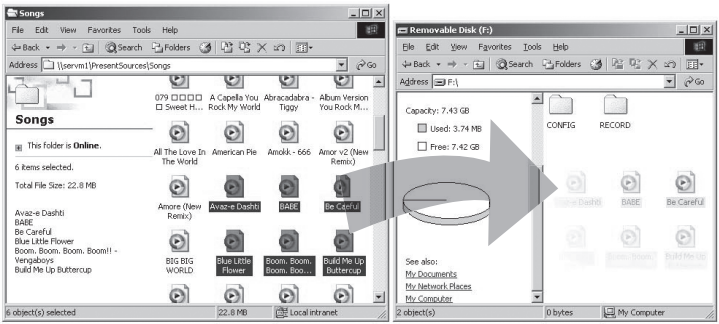
There are two ways for file transfer

- Drag and Drop for general file
- DRM file transfer through Windows Media Player

General File Transfer

After the recorder is connected to computer for uploading/downloading, no special operation other than simple “drag-drop” is needed.

1. Connect the recorder with your computer by the included USB cable (refer to P.14 for details).
2. Double click “my computer” in Windows, you will find a new icon “removable disk”, which represents your recorder.
3. Drag your files to “removable disk”.



4. After the tranfer is completed, disconnect your recorder.
5. Now you are ready to play music.

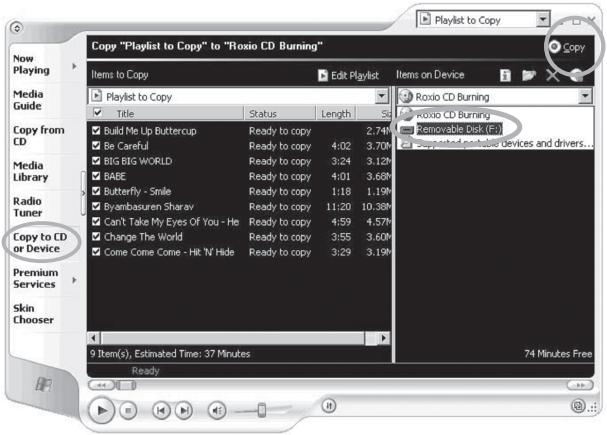
Note:

You can also drag and drop files to the recorder in Windows XP.
All audio files should be placed in "Media" folder and other files in "Data" folder.

DRM File Transfer

Synchronization using Windows Media Player9 (Windows ME, 2000) under Mass Storage PC Connection.

1. Run Windows Media Player 9
2. Connect your recorder to the computer
3. Select "Copy to CD or recorder".
4. Drag the desired songs in PC to the left pane.
5. Select removable disk
6. Click copy


Playlist to Copy
Copy "Playlist to Copy" to "Roxio CD Burning"
Copy
Now Playing
Media Guide
Copy from CD
Media Library
Radio Tuner
Copy to CD or Device
Premium Services
Skin Chooser
Items to Copy
Edit Playlist
Items on Device
Playlist to Copy
Roxio CD Burning
Title
Status
Length
Roxio CD Burning
Removable Disk (F:)
Build Me Up Buttercup Ready to copy 2.74M
Be Careful Ready to copy 4:02 3.70M
BIG BIG WORLD Ready to copy 3:24 3.12M
BABE Ready to copy 4:01 3.68M
Butterfly - Smile Ready to copy 1:18 1.19M
Byambasuren Sharav Ready to copy 11:20 10.38M
Can't Take My Eyes Of You - He Ready to copy 4:59 4.57M
Change The World Ready to copy 3:55 3.60M
Come Come Come - Hit 'N' Hide Ready to copy 3:29 3.19M
9 Item(s), Estimated Time: 37 Minutes
74 Minutes Free
Ready

Basic Functions

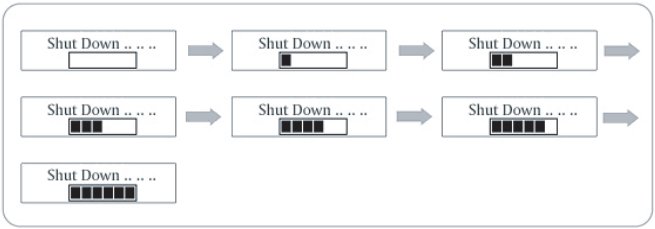
Power on/off

Power on

Press "play/pause" button to start the device

Shut off

1. Long press "play" button, the device will be shut off, as the progress bar displayed below.
2. When the progress bar is full, the device will be shut off automatically.
3. If releasing the "play" button before the progress bar is full, the device will resume to the former status. Designed in this way, the device will not be shut off accidentally.



Volume setting

Adjust the volume by using "VOL+" and "VOL-" on the main device

1. Press the button briefly to adjust the volume section by section; long press on the button to adjust the volume continuously.

Basic Function

Mode switch

This device has three working modes: music mode, FM mode and record mode.
Press "M" to enter "mode selection" item, press "vol+" button or "vol-" button to select desired mode among "music mode", "FM" and "record mode" .

Lock function

When switching on "HOLD" lock button, all the functions cannot be operated. Switch on the device when it is shut off, "locked" will be displayed. When it is playing, there will be an icon of "locked" on the upper left of screen.

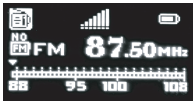
Play music

Play/pause
The device will enter music mode or record mode when it is normally started, press "⏯" button to begin playing when it is playing, press "⏯" button to pause playing. The file is in STOP status when the device is normally started.

1. Select play file
   1) When it is pause/stop, short press "⏭" button or "⏮" button to select files in the music bank.
   2) When it is playing, short press "⏭" button briefly to play the next file, while press "⏮" button within 5 seconds to play the previous file, and after 5 seconds to play the current files from the beginning.
2. Fast forward/fast backward
   Press "⏭" button or "⏮" button for more than one second to begin fast forward or fast backward.

Basic Function

FM radio



Important:
Only when earphone is plugged in earphone jack, the FM radio can be received.

Normal FM mode

In normal FM mode, you can scan broadcasting station automatically or manually. There are "mode, auto scan, frequency preset, frequency save, record sensitive, frequency selection, system setting and return" are available.

Menu under normal FM mode

Mode: Switch working mode
Auto scan: scan all the frequency automatically
Frequency preset: switch to frequency preset mode
Frequency save: save the current radio frequency
Sensitivity: set the sensitivity of auto scan
Frequency selection: switch between common frequency and campus frequency
Setting: get into the system setting menu. Please refer to "system setting" part in this manual for details.

Preset FM mode

You can select a FM program from the pre-saved ones in preset FM mode. "mode selection, auto scan, normal mode, channel deleting, sensitivity, frequency selection, system setting and return" are available.

Menu in preset FM mode

Mode selection: switch working mode
Auto scan: scan all the frequency automatically
Normal mode: switch to normal FM mode
Channel deleting: deleted the saved FM channel
Sensitivity: set the sensitivity of auto scan
Frequency selection: switch between common frequency and campus frequency
Setting: get into the system setting menu. Please refer to "system setting" part in this manual for details.

Basic Function

Broadcast auto scan

In preset FM mode, press "M" button enter menu and select "auto scan", the digital recorder will start to scan broadcasting stations in all the frequencies and the scanned broadcasting stations will be automatically stored in preset channels.

Campus frequency

FM mode provides "campus frequency", a low frequency ranging from 76 to 87.5MHz.

Record function

Before select the record mode must set the record quality.

When use the DR2 as dictating machine with the build-in microphone, Mic-IN for recording selected, is a middle or low compression recommended. So the device need less memory.

For professional music- and voicerecording (Concert, Interview ...) will use seperate microphones what must connected in the ext. Mic-IN jack. By this professional recording should always select the high quality WAV format. The WAV files are after drag and drop on the computer very easy to burn on a CD.

Recording:

In record mode, it can record via built-in Mic/External Mic/Line-in

1) Long press "Rec" button to choose the recording method
2) Short press "Rec" button again to begin recording
3) Short press "Rec" button again to stop recording.
4) Press "▶II" to pause recording
5) Recorded files are stored as default files .

Note:

In record mode , auto silent detect (ASD) function is invalid.

Basic Function

FM record

In FM mode,the programs from FM station can be recorded in MP3 or WAV format.

1) Press "Rec" button to begin recording
2) Press "Rec" button again to stop recording
3) Press "▶II" button to pause the recording

Recorded files are stored as default files .

Manual record level control

The DR2 dispose of a manual record level control.
This function is only available if ext. mic-in is selected.

The basic mode for the record level is 0dB. The record level dynamic, which is shown in the display, is up to the sensitivity of the connected microphone and the sound-pressure which you are going to record.

If the level is high, you can switch into the -10dB step or -20 dB pressing the joystick. So you can reduce the input sensitivity of the gain with 10dB steps.

Inside the 10dB the fine-tuning will be executed with the joystick. Pressing the joystick to the right for up, pressing the joystick left for down.

The switch-over between the 10dB steps as well as the fine-tuning is practicable during recording.

Monitoring

This can be monitored over headphones during the admission.

Play recorded files

All the voice files recorded by built-in Mic/external Mic/Line-in/FM will be saved in the menu of "record mode", The operation of which is the same with play operation in "music mode" and "record mode".

Additional Function

EQ setting

Select the playing EQ. "normal, rock, jazz, pop, classic, bass" are available.

Repeat mode

The play modes of digital player are "normal, repeat one, repeat all, shuffle, random shuffle and return". You can select "return" to keep the original setting.
Normal: play all the music with the by turns.
Repeat one: repeat playing the current music file
Repeat all: repeat playing all the music files by turns
Shuffle: randomly play one of all the music files
Random shuffled: select one music file from all, and repeat playing it

Recording Quality

Setting the Encoding rate of MP3 files when MP3 is encoded while recording.
"96Kbps, 128Kbps,192Kbps" are available.
You can also select WAV (ADPCM) as the recording format.

Additional Function

ID3 language selection

"English, simplified Chinese, traditional Chinese, Japanese, Korean, Slavic " choices are available.

File management

Delete

1. Press "M" button to enter function menu, select "delete files" function.
2. Press "M" button to enable delete function;
3. Search the needless files by using " ⏭ " or " ⏮ " button, and select "yes" to delete the file; select "no" to return to the menu. Or press "REC" button to return to play interface.
4. When the message "file deleted" is display, press "REC" button to return to main menu.

Note:

Read-only files in the player cannot be deleted, "delete failure" will be displayed when they are being deleted.

Page-25.pdf 24.05.2007 10:58:44

Firmware upgrade

Firmware upgrade file and upgrade procedures are available from the below website.
http://www.soundman.de

You are recommended to check the availability of new firmware release version to perform upgrade periodically to enhance the performance of the recorder.

Notes:
1) Disconnection during firmware upgrading may cause failure to the device.
2) Do not change the file name or extension of the upgraded files.

System setting

System setting selection menue
In all working modes, the following system settings can be conducted "Interface language, auto shut off, timing shut off, backlight time, contrast, scroll speed default settings, about and return".

Interface Language
Set the operation interface display language. "English, German" are available. You can also select "return" to keep the original settings.

Auto shut off
Use to set the auto shut off time for digital recorder. When the idle time of the recorder reaches the preset shut off time, the digital recorder will shut off automatically to save energy. The auto shut off choices are "1 minute, 2 minutes, 3 minutes, 5 minutes". You can also select "return" to keep the original settings.

Timing shut off
Preset auto shut off time. When the time runs out, the device will shutt off automatically. "Off, 15, 30 60, 90" minutes are available. You can also select "return" to keep the original settings.

Note:
Voice mode do not support character scroll function.

Backlight time
It is used to set the time of LCD backlight after each operation.
"Off, 10 seconds, 30 seconds, 60 seconds, permanent" are available.
You can also select "return" to keep the original settings.

Note:
1) When the recorder is running out of power, the backlight will be become dimmer. The battery should be replaced to make it resume the normal status.
2) When record is underway, the screen will switch to half-bright automatically.

Page-27.pdf 24.05.2007 11:00:05

System setting

Contrast
It is used to set the contrast of LCD, totally 10 grades:"1,2,3,4,5,6,7,8,9,10" are available.

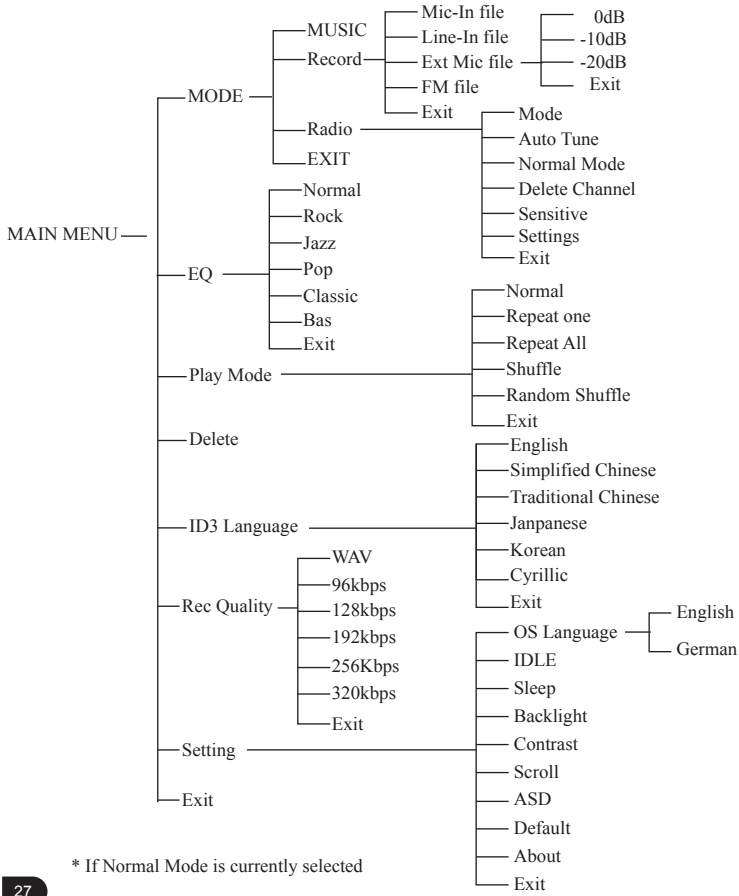
Scroll
If the length of character string is too long to be displayed by LCD, LCD will scroll displaying the character string. The speed of scroll can be selected among "off, slow, moderate and fast. You can also select "exit" to keep the original settings.

ASD (Auto Silence Detection)
This item allows you to choose the length of silence before ending the current line-in recording and starting a new file. You can also turn the silence detection off or 1, 2, 3 seconds of silence detect.

Default
If "yes" is selected, the digital player will resume to system default setting; if "no" is selected, the digital player will keep the current setting.

About (this device)
Used to display the version information, capacity and leftover capacity of this device

Main menu tree diagram



* If Normal Mode is currently selected

Page-29.pdf 24.05.2007 11:00:20

Customer Support

Trouble Shooting

1. The device refuses to work or LCD does not display. ● Check if there is enough battery power. ● Check if the polarities of battery are correct.
2. The device does not respond to button press ● Check if the "hold" button is in "on" position. If it is in "off" position, button press does not work.
3. It can not play MP3 files ● Check if there is a MP3 file in the RAM memory. ● Check if the recorder is in music mode.
4. It can not play voice files ● Check if there is a voice file in the RAM memory. ● Check if the recorder is in record mode .
5. Installation drive program and software update program cannot be installed. ● Drive program and software update program support WIN98, ME, 200, XP, XP Pro and XP Home.
6. After the device is connected to the computer, there is not a recorder icon on the computer. ● Make sure that the drive program has been correctly installed and the recorder is powered on. Connect USB jack correctly to the computer. Make sure that the device has been correctly installed by checking the "device manager" of the computer.
7. How to resume the default value of the recorder, ● Select "resume default setting" in the system setting of the device and select "yes" to resume the default value.
8. LCD backlight is not on. ● Check if the backlight setting in the system setting of the device is set in "off" position.

Specification

Dimensions (L x W x H)	**72.5 x 35.5 x 18.5mm**
Net weight	**25g (battery not included)**
RAM memory	**2GB**
Power supply	**One alkaline battery 1.5V AAA**
PC interface	**Mini USB (USB 2.0)**
FM	**87.5-108MHz, auto/manual scan, 30 channels are preset**
Play	**WAV, Mp3, WMA, support VBR**
Digital recording format	**WAV (ADPCM), MP3 (96kbps, 128kbps, 192Kbps, encoding rate available)**
Build-in Mic	**Capacitive Mic**
Signal-yo-noise ratio	**85dB**
Range of sound frequency	**20Hz-20KHz**
Duration of battery	**>13 hours**
EQ mode	**Normal, Rock, Jazz, Classic, Pop, Bass**
Play mode	**Normal, Repeat one, Repeat all, Shuffle, Random shuffle**

Note:

The above-mentioned specifications of digital audio player are subject to change for the purpose of performance upgrading without special notice.

For further informations please look into the webpages http://www.soundman.de
Especially recommended settings for user of soundman binaural microphones.

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